



COMMONWEALTH of VIRGINIA

DEPARTMENT OF FORENSIC SCIENCE

CALIBRATION LABORATORY
A Nationally Accredited Laboratory

737 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010448
DATE CERTIFICATION METHOD PERFORMED: February 10, 2015
DATE RECERTIFICATION DUE: August 9, 2015

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

0.020 ± 0.004 g/210 L	0.150 ± 0.008 g/210 L
0.080 ± 0.004 g/210 L	0.250 ± 0.008 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

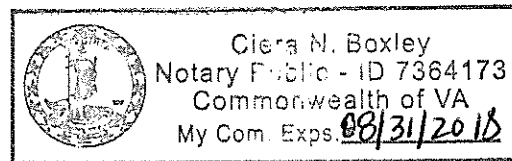
Michelle M. Billeter
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 12th day of February, 2015 by Michelle M. Billeter

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2018



mmB

**Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
2/10/2014 To 2/10/2015**

Instrument Serial Number:	010448	As of 10-Feb-15
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Maintenance	Certification	Technician	
Date	Date	Initials	Remarks
10-Feb-15	10-Feb-15	MMB (26417)	CERTIFIED.
22-Aug-14	22-Aug-14	TLN (25387)	CERTIFIED.
16-Apr-14	25-Feb-14	DBH (21250)	REPLACED UPS BACK-UP BATTERY.
25-Feb-14	25-Feb-14	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.

mmB

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010448** Worksheet Start Date **2/10/2015**
Location **DFS Central**
Address **737 North 5th Street, Richmond VA 23219**
DFS Technician **Michelle Billeter** License No. **26417**

☒ Laboratory ☐ On-Site

Site Specification: No detrimental environmental conditions exist. ☐

Instrument Barometer (mm HG) **755** Reference Barometer (mm HG) **756**
Reference Barometer(RB)Serial # **009111** RB Calibration Due **5/19/2015**

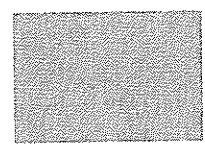
Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.301
0.300	0.298	0.289	0.306	Sample 2	0.301
Precision		sample min	sample max	Sample 3	0.301
0		0.301	0.301		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.099
0.100	0.099	0.096	0.102	Sample 2	0.099
Precision		sample min	sample max	Sample 3	0.099
0		0.099	0.099		

Dry gas standard Lot No. (with tank no.) **AG316301-13**

- ☐ Replaced dry gas standard (+O-ring)
- ☐ Installed at Location
- ☐ Removed to DFS-Central
- Supplies
Mouthpieces
Certificates of Analysis
Operator Worksheet
Other:



Notes:

Instrument Serial Number

010448

Certification Date

2/10/2015

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.249
0.250	0.248	0.240	0.255	Sample 2	0.249
Precision		sample min	sample max	Sample 3	0.248
0.001		0.248	0.249		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.149
0.150	0.149	0.144	0.153	Sample 2	0.149
Precision		sample min	sample max	Sample 3	0.149
0		0.149	0.149		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.079
0.080	0.080	0.077	0.083	Sample 2	0.079
Precision		sample min	sample max	Sample 3	0.080
0.001		0.079	0.080		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.019
0.020	0.020	0.017	0.023	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician

Michelle Billette

Date

2/10/15

Issuing Analyst

Michelle Billette

Date

2/10/15

JPD

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010448 Test Number: 1649
Test Date: 02/10/2015 Test Time: 09:46 EST

Technician Initials: MMB

Dry Gas Target: 0.248

Lot Number: 1611425014-04 Exp Date: 07/05/2016

Tank Pressure: 203 psi Barometric Pressure: 755 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:46
BLK	0.000	09:47
CHK	0.249	09:48
BLK	0.000	09:49
CHK	0.249	09:50
BLK	0.000	09:52
CHK	0.248	09:52
BLK	0.000	09:54

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

Intox EC/IR-11: Certification

Department of Forensic Science

Serial Number: 010448 Test Number: 1650
Test Date: 02/10/2015 Test Time: 09:56 EST

Technician Initials: *MMB*Dry Gas Target: *0.149*Lot Number: *1611415013-03* Exp Date: *07/05/2016*Tank Pressure: *977 psi* Barometric Pressure: *755 mmHg*System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	09:56
BLK	0.000	09:57
CHK	0.149	09:58
BLK	0.000	09:59
CHK	0.149	10:00
BLK	0.000	10:01
CHK	0.149	10:02
BLK	0.000	10:03

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

mmB

Intox EC/IR-11: Certification

Department of Forensic Science

Serial Number: 010448 Test Number: 1651
Test Date: 02/10/2015 Test Time: 10:05 EST

Technician Initials: MMB

Dry Gas Target: 0.080

Lot Number: 1611408012-02 Exp Date: 07/05/2016

Tank Pressure: 830 psi Barometric Pressure: 755 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:05
BLK	0.000	10:06
CHK	0.079	10:07
BLK	0.000	10:08
CHK	0.079	10:09
BLK	0.000	10:10
CHK	0.080	10:11
BLK	0.000	10:12

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

mmB

Intox EC/1R-11: Certification

Department of Forensic Science

Serial Number: 010448 Test Number: 1652
Test Date: 02/10/2015 Test Time: 10:14 EST

Technician Initials: MMB

Dry Gas Target: 0.020

Lot Number: 1611402011-01 Exp Date: 07/05/2016
Tank Pressure: 287 psi Barometric Pressure: 755 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:14
BLK	0.000	10:15
CHK	0.019	10:16
BLK	0.000	10:17
CHK	0.019	10:18
BLK	0.000	10:19
CHK	0.019	10:20
BLK	0.000	10:21

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

mmB

Intox EC/IR-11: Accuracy Check

Department of Forensic Science

Serial Number: 010448 Test Number: 1653

Test Date: 02/10/2015 Test Time: 10:25 EST

Dry Gas Target: 0.298

Lot Number: AG428003-12 Exp Date: 10/07/2016

Tank Pressure: 755 psi Barometric Pressure: 755 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:25
CHK	0.301	10:26
BLK	0.000	10:28
CHK	0.301	10:29
BLK	0.000	10:31
CHK	0.301	10:31

Test Status: *Success*

Calibration CRC: 0845FB38

mmf

Intox EC/IR-11: Accuracy Check

Department of Forensic Science

Serial Number: 010448 Test Number: 1654

Test Date: 02/10/2015 Test Time: 10:35 EST

Dry Gas Target: 0.099

Lot Number: AG316301-13 Exp Date: 06/12/2015

Tank Pressure: 71 psi Barometric Pressure: 755 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	10:36
CHK	0.099	10:36
BLK	0.000	10:38
CHK	0.099	10:39
BLK	0.000	10:40
CHK	0.099	10:41

Test Status: Success

Calibration CRC: 0845FB38

mmb

INSTRUMENT, TEST,

DFS

BILLETER, MICHELLE, M

DFS Central Lab

26417

10/01/2016

02/10/2015

010448

02/10/2015

11:02 EST

0.00



IntoxNet MIS Report

Report Generated 10 Feb 2015 at 11:16

mmB

Test Results

Instrument Serial Number 010448

Test # 001655

Subject Test

Test Location 1 Department of
Test Date 10 Feb 2015

Test Location 2 Forensic Science
Test Time 10:55
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name BILLETER
Agency DFS Central Lab

Operator's First Name MICHELLE

Operator's Middle Initial M

Card Serial Number 126417

License Number 26417

Effective Date 10/01/2014

Expiration Date 10/01/2016

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 10 Feb 2015 End Time 11:04

Result Time 11:02

Result Date 10 Feb 2015

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 10:56

Data Type BLK

Sample Value 0.000

Sample Time 10:56

Data Type CHK

Sample Value 0.099

Sample Time 10:57

Data Type BLK

Sample Value 0.000

Sample Time 10:59

Data Type SUBJ

Sample Value 0.000

Sample Time 11:00

Data Type BLK

Sample Value 0.000

Sample Time 11:01

Data Type SUBJ

Sample Value 0.000

Sample Time 11:02

Data Type BLK

Sample Value 0.000

Sample Time 11:03

Standard Type Dry Gas Std

Standard Value 0.099

Standard Lot Number AG316301-13

Standard Expiration Date 06/12/2015

Tank Pressure 66

Barometric Pressure 755 mmHg

Blow Sample Number 1 Blow Duration 2.74 sec

Blow Volume 1623 cc

End-of-Blow Time 11:00

Blow Sample Number 2 Blow Duration 3.92 sec

Blow Volume 1719 cc

End-of-Blow Time 11:02

Tamper Evident Stamp f662c8a4

Test Status Code 0

Test Status Success